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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/829,431 | 04/22/2004 | Ching Man Tsui | 033539-021 | 8776 |

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BURNS DOANE SWECKER & MATHIS L L P
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EXAMINER

KOBERT, RUSSELL MARC

ART UNIT PAPER NUMBER

2829

DATE MAILED: 05/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|-------------------------------|-----------------------------|--|
| Office Action Summary | Application No. 10/829,431 | Applicant(s) TSUI ET AL. | |
| | Examiner Russell M. Kobert | Art Unit 2829 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 April 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>0404</u> . | 6) <input type="checkbox"/> Other: _____ |

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1. In view of Applicants' Response to the Restriction requirement, the requirement to elect is hereby withdrawn.

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. A good *example* of a descriptive title, though not related to this case, could be "*Method and Apparatus for Passive Optical Characterization of Semiconductor Substrates Subjected to High Energy (MEV) Ion Implantation Using High-Injection Surface Photovoltage.*"

3. The abstract of the disclosure is objected to because it contains legal phrases such as means and/or said. Correction is required. See MPEP § 608.01(b).

4. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

5. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "leadframe," and

"non-singulated semiconductor device" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

6. Claims 1-13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification fails to show how and where

the leadframe is used and further fails to show how and where the "non-singulated semiconductor devices" are used.

7. Claims 1-13 are objected to because it is not clear if the invention is drawn to an apparatus or a combination of elements of a system. In the instant application, Applicants describe the particulars of an apparatus however it is not clear if the row or rows of non-singulated semiconductor devices are part of the claimed invention. It appears Applicants' invention is solely directed to the Apparatus itself. For purposes of understanding the meets and bounds of the claimed invention, the claims have been interpreted to be drawn only to the Apparatus itself. Appropriate correction is required.

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

9. Claims 1-5 and 8-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Tsurishima et al (5227717).

Tsurishima et al anticipates an apparatus (Figure 6) for supporting during a testing operation a leadframe (99) formed with at least one row of non-singulated semiconductor devices (plurality of carrier modules 22 aligned within the frame 98), comprising a main body (70) and a leadframe support member (24), wherein said

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leadframe support member is formed with at least one groove (that portion bounded by frame 98) for receiving said semiconductor devices such that in use leads extending from said devices lie on a surface of said support member; as recited in claim 1.

As to claim 2, Tsurishima et al anticipates the leadframe support member being formed by a plurality of parallel grooves (note 4 parallel and bounded regions).

As to claim 3, Tsurishima et al anticipates means (96) for releasably gripping the leadframe.

As to claim 4, Tsurishima et al anticipates the gripping means comprising a pair of gripping members disposed on respective sides of the groove (see items 96 on opposite sides of 24).

As to claim 5, having means for moving the gripping members into and out of engagement with the leadframe is anticipated by Tsurishima et al (col 9, ln 67 - col 10, ln 2).

As to claim 8, having the gripping means extended through apertures formed in the leadframe support member is anticipated by Tsurishima et al (note rotors 96 partially inserted to dashed line in frame 99)

As to claim 9, having locating pins (97; see Figure 4) for locating the leadframe support member on the main body (70) is anticipated by Tsurishima et al.

As to claim 10, having the main body formed of conducting material and provided with means for electrically grounding the main body is considered an intrinsic property of the apparatus of Tsurishima et al.

As to claim 11, having the leadframe support member formed of a highly resistive insulating material is considered an intrinsic property of the apparatus of Tsurishima et al.

As to claim 12, having the main body provided with identification means is considered to be within the scope of normal practice of Tsurishima et al.

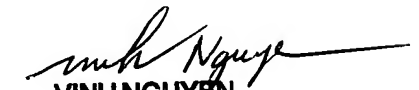
As to claim 13, having means for coupling the main body with a transport mechanism is anticipated by Tsurishima et al (note the coupling portion between 70 and 96 shown in Figure 4).

A shortened statutory period for response to this action is set to expire three month(s) from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Kobert whose telephone number is (571) 272-1963. The Examiner's Supervisor, Nestor R. Ramirez, can be reached at (571) 272-2034. For an automated menu of Tech Center 2800 phone numbers call (571) 272-2800.



Russell M. Kobert
Patent Examiner
Group Art Unit 2829
May 23, 2005



VINH NGUYEN
PRIMARY EXAMINER
A-4-2829
05/26/05